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Building Cyber Defenses to Withstand Sophisticated Cyber Adversaries

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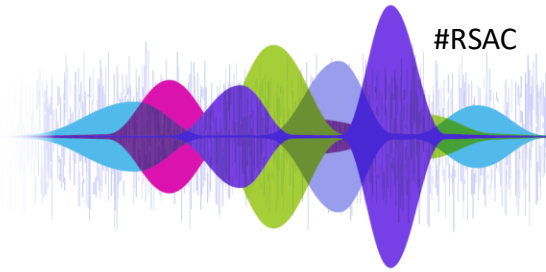

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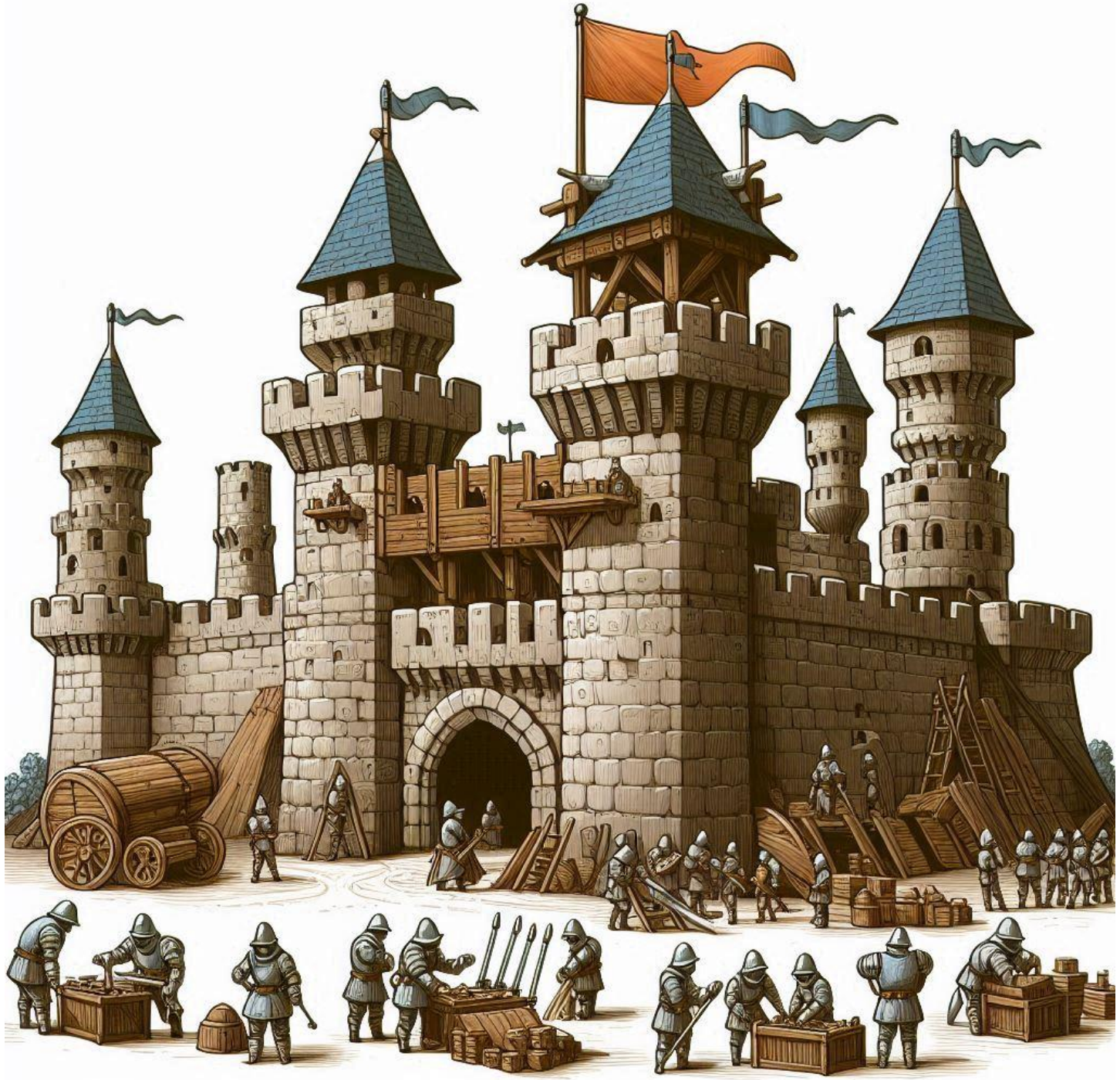


How to build your fortress to withstand sophisticated attackers

Sophisticated cyber adversaries

- Cyber-attacks ranging from sophisticated ransomware to state-sponsored attacks, charging against your organizations.
  - Sophisticated, how?
  - Ransomware as a service
  - State-sponsored cyber threat actors
  - Key breaches and incidents of 2024

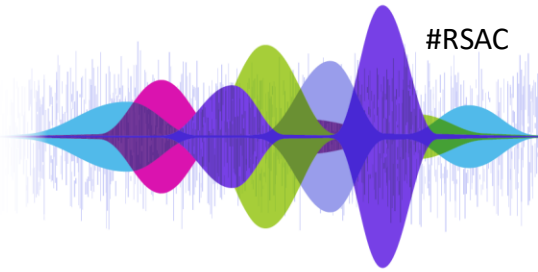
Breaching the defenses

- Cyber adversaries are successfully gaining initial access to even well-established organizations, despite the presence of multiple security products and defenses.
- How does it happen?

Initial access attack vectors

- Initial access attack vectors and how adversaries gain access bypassing modern security controls
  - Notable initial access tools, techniques used by adversaries
  - Initial access brokers
  - How threat actors are evading modern security controls and defense systems for gaining access
  - What are we missing as a defender?

Generative AI for offensive operations

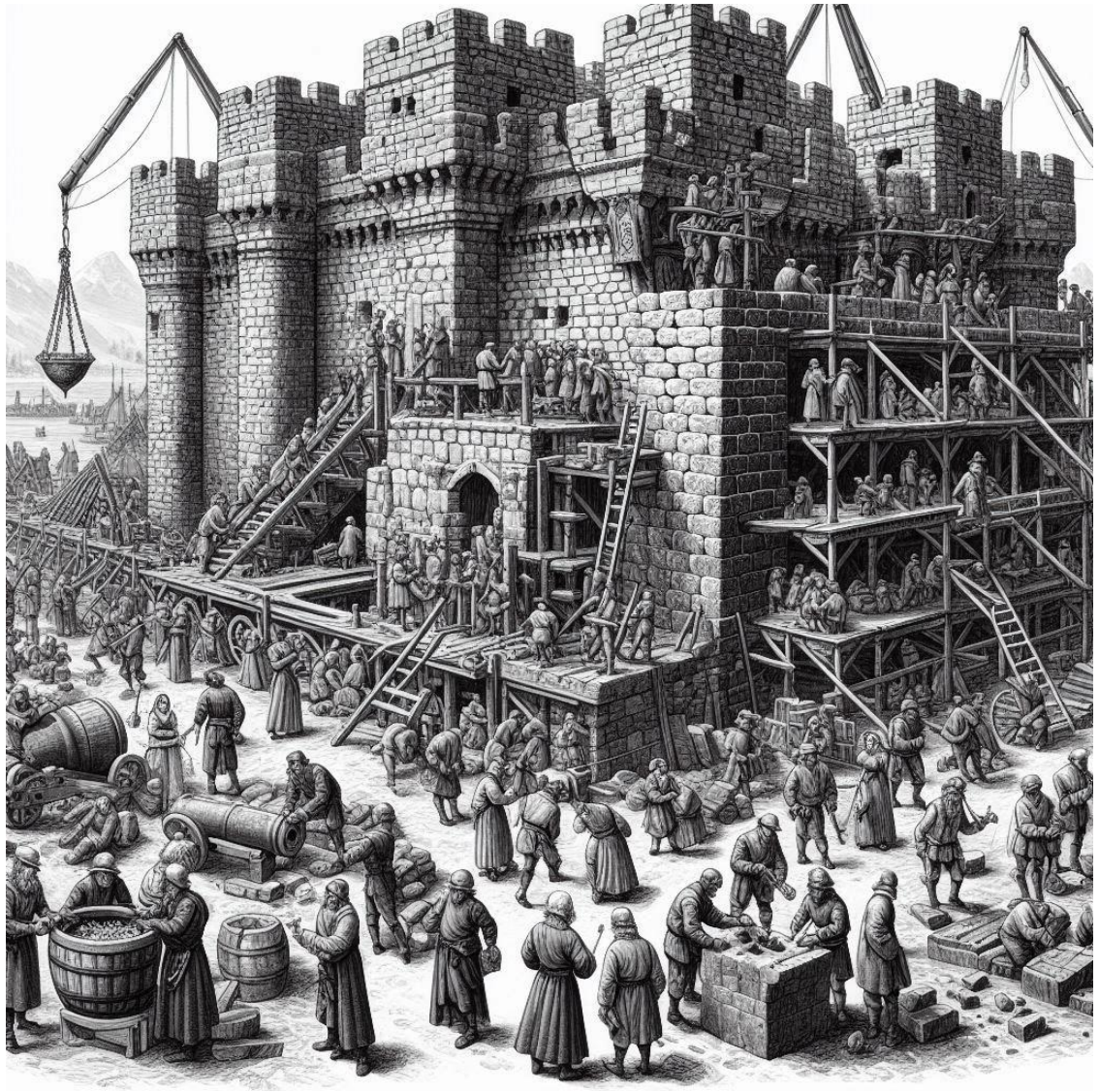


- Attacks using AI systems and leveraging uncensored AI for offensive operations
  - Incidents of cyber threat-actors using AI systems to craft better payloads and techniques
  - Using generative AI systems for the betterment of defensive/offensive systems and controls
- Attacks against AI systems?
  - Adversaries fooling AI systems to breach sensitive data and gain access?

Building defenses == building offensive teams?

- How offensive security operations and adversary simulation can be helpful to organization to build better defenses
- Key concepts of adversary attack simulation
  - Adversary Simulation Vs. Adversary Emulation
  - Threat-Informed Defense
  - Adversarial Exposure Validation
  - Dynamic red teaming and adversary simulation

Building defenses



- Building and finetuning cyber defenses to withstand sophisticated cyber adversaries
  - Deploying security products with continuous control validation in mind
  - Adversarial exposure testing on the principle of People, Process and Technology
  - Threat-Intel powered continuous threat and adversary emulation
  - Dynamic adversarial attack simulation to test defenses
  - A bullet proof incident response plan

Building your cyber defenses to withstand sophisticated cyber adversaries

Apply What You Have Learned Today

- Next week you should:
  - Identify cyber threat actors and adversary groups targeting your organization and industry
- In the first three months following this panel you should:
  - Initiating small adversary emulation campaigns against endpoint security controls and products
  - Evaluate how the defenses improved post continuous testing
- Within six months you should:
  - Build a security initiative using threat-informed defense and continuous adversary emulation as the foundation
  - Drive security control validation assessment against the security products deployed in your organization, process and policies
  - Address the gaps, continuous betterment of defense systems

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Thank You